# Madison County
# STORMWATER MANAGEMENT CONCEPT PLAN
**September 2009**

COMPLETE DESIGN IS NOT REQUIRED IN THE STORMWATER MANAGEMENT CONCEPT PLAN; HOWEVER, SUFFICIENT ANALYSIS MUST BE PERFORMED TO SHOW THE PLAN IS WORKABLE. THE AMOUNT OF ANALYSES REQUIRED WILL VARY DEPENDING ON THE SIZE AND COMPLEXITY OF THE SITE AND THE DEVELOPMENT.

A STORMWATER MANAGEMENT CONCEPT PLAN CONTAINS FIVE MAIN COMPONENTS; A SUMMARY, A NARRATIVE, ILLUSTRATIVE DRAWINGS, COMPUTATIONS, AND LID CHECKLIST.

I. ___ 5.3 SUMMARY (PAGE 38)
   - A. ___ VICINITY MAP WITH NORTH-ARROW
   - B. ___ SUMMARY TABLE OF ALL DRAINAGE OUTFALLS, CONTRIBUTING AREAS, AND PERCENT IMPERVIOUS COVER
   - C. ___ SUMMARY TABLE OF ALL SOIL TYPES
   - D. ___ IDENTIFICATION OF FEMA FIRM PANEL NUMBER FOR THE SITE
   - E. ___ WAIVER/EXCEPTION STATEMENT IF APPLICABLE
   - F. ___ STATEMENT OF LID IMPLEMENTATION (FULL, PARTIAL, OR LIMITED, SECTION 3.6 ON PAGE 13)
   - G. ___ LIST OF ALL STATE AND FEDERAL PERMITS EXPECTED

II. ___ 5.4 PLAN NARRATIVE (PAGE 39)
   - A. ___ NATURAL RESOURCE ASSESSMENT NARRATIVE (APPENDIX 11.3)
     - I. ___ DESCRIBE EXISTING LAND USE AND DRAINAGE, INCLUDE NATURAL AND MANMADE DRAINAGE FEATURES
     - II. ___ DESCRIBE WETLANDS AND SURFACE WATERS ON SITE
     - III. ___ THE NUMBER AND GENERAL DESCRIPTION OF CONVEYANCES AT EACH POINT WHERE SHALLOW CONCENTRATED FLOW OR CHANNEL FLOW CROSSES PROJECT LIMITS.
     - IV. ___ DESCRIBE EXISTING HYDRAULIC CONDITIONS OF THE CONVEYANCES DOWNSTREAM OF EACH POINT.
   - B. ___ GENERAL PROJECT DESCRIPTION AND IMPACT ON EXISTING DRAINAGE
   - C. ___ DESCRIBE ON-SITE DRAINAGE AND PERMANENT STORMWATER MANAGEMENT FACILITIES PROPOSED FOR REQUIRED WATER QUANTITY AND WATER QUALITY.
   - D. ___ DESCRIBE OFF-SITE FACILITIES USED TO MEET THE REQUIRED RUNOFF CONTROL

E. ___ Describe downstream conveyance and include an initial adequate channel analysis.

F. ___ Describe parties responsible for maintenance of BMPs and legal documents, see section 9.3.

III. ___ 5.5 Illustrative Drawings (Page 40)

A. ___ Provide a Pre-development and Post-development maps

B. ___ Show property line and project limits

C. Natural Resource Assessment Maps

I. ___ Soils

II. ___ Vegetation (trees)

III. ___ Wetland and Surface Waters delineation

IV. ___ Drainage with elevation contours

V. ___ Critical Slopes

VI. ___ Existing man-made drainage structures (Ditch or Culvert)

D. ___ 100-year floodplains from FEMA Flood Insurance Rate Map.

E. ___ A statement of floodplain impacts and need for flood plain study if applicable.

F. ___ Show Stream Buffers and Stormwater Easements where applicable

G. ___ Show all points where shallow concentrated or channel flow crosses project limits.

H. ___ Location of existing and proposed water supply wells and septic systems.

I. ___ Location and Types of LID BMPs

IV. ___ 5.6 Computations (Page 42)

A. ___ All values used must be sourced to an acceptable reference or illustration on the site plan

B. ___ Channel Adequacy, compute two-, ten-year discharge and velocity

C. ___ Each BMP show anticipated performance (storage, discharge, etc.)

D. ___ LID Calculation Worksheet (Appendix 11.3)

V. ___ LID Checklist (Appendix 11.3)